Coding for innovators Assignment 3: Python programs using turtle graphics:

Turtle program 1:

Black Spiral Pattern

```
import turtle

dist = 1

flag = 500

spiral = turtle.Turtle()

spiral.speed(10)

while flag:

spiral.forward(dist)

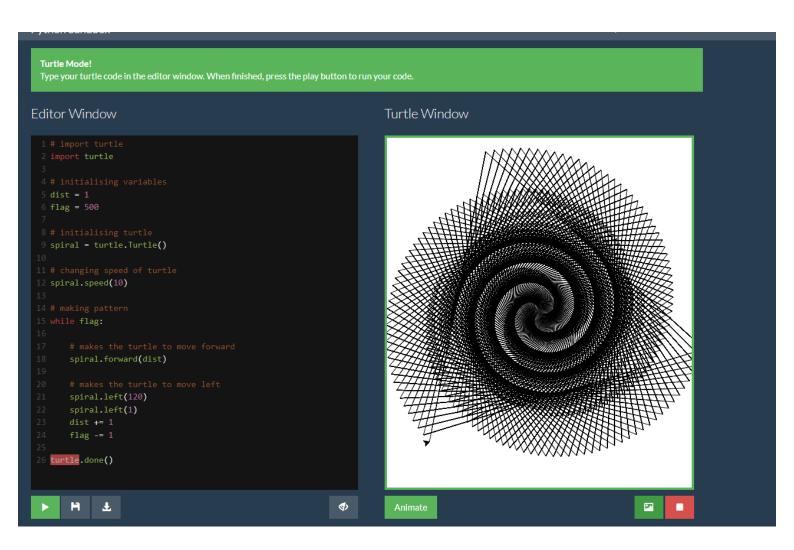
spiral.left(120)

spiral.left(1)

dist += 1

flag -= 1

turtle.done()
```



Turtle program 2:

Snowman Diagram

import turtle

Create turtle object

t= turtle.Turtle()

Create a screen

screen =turtle.Screen()

Set background color

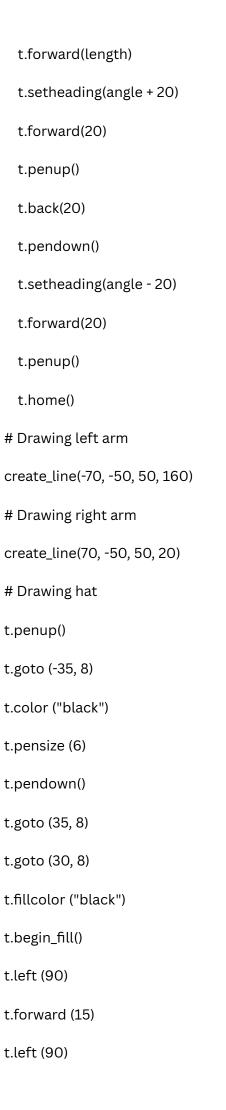
screen.bgcolor("sky blue")

Function to draw body of snowman

def draw_circle(color, radius, x, y):

t.penup()

```
t.fillcolor (color)
  t.goto (x, y)
  t.pendown()
  t.begin_fill()
  t.circle (radius)
  t.end_fill()
# Illustrating snowman
# Drawing snowman body
draw_circle ("#ffffff", 30, 0, -40)
draw_circle ("#ffffff", 40, 0, -100)
draw_circle ("#ffffff", 60, 0, -200)
# Drawing left eye
draw_circle ("#ffffff", 2, -10, -10)
# Drawing right eye
draw_circle ("#ffffff", 2, 10, -10)
# Drawing nose
draw_circle ("#FF6600", 3, 0, -15)
# Drawing buttons on
draw_circle ("#ffffff", 2, 0, -35)
draw_circle ("#ffffff", 2, 0, -45)
draw_circle ("#ffffff", 2, 0, -55)
# Function to draw arms
def create_line(x, y, length, angle):
  t.penup()
  t.goto(x, y)
  t.setheading(angle)
  t.pendown()
```

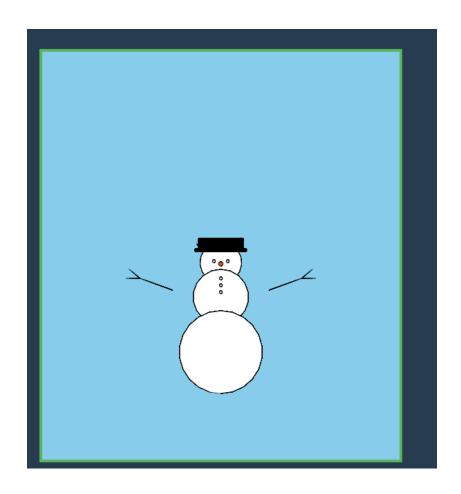


t.forward (60)

t.left (90)

t.forward (15)

t.end_fill()



Turtle program 3:

Spotify Logo

import turtle as tur

tur.Screen().bgcolor("Black")

tur.speed(15)

tur.begin_fill()

tur.fillcolor('#1DB954')

tur.pencolor("#1DB954")

